

Title (en)  
SENSOR INTERFACE CIRCUIT

Title (de)  
SENSORSCHNITTSTELLENSCHALTUNG

Title (fr)  
CIRCUIT D'INTERFACE DE CAPTEUR

Publication  
**EP 3647737 B1 20220803 (EN)**

Application  
**EP 18204290 A 20181105**

Priority  
EP 18204290 A 20181105

Abstract (en)  
[origin: EP3647737A1] The present invention relates to a sensor interface circuit (120) comprising- an input arranged to receive a sensor signal being an electrical signal representative of an electrical quantity, said electrical quantity being a physical quantity converted in a sensor,- conversion means (123) arranged for converting said sensor signal into a digital signal,- memory (125) to store sensor characterisation data,- signal processing means (128) adapted to obtain a first sensor result by processing said digital signal using said sensor characterisation data,- an output unit (122) arranged to receive and output said first sensor result, said digital signal and said sensor characterisation data. An external control unit (140) is arranged for verifying signals derived from a sensor signal received in the sensor interface circuit (120), the external control unit (140) being adapted- to receive from said sensor interface circuit (120) said first sensor result, said digital signal and said sensor characterisation data,- to determine a second sensor result by processing said digital signal using said sensor characterisation data in a signal processing means of said external control unit, and- to compare said first and said second sensor result.

IPC 8 full level  
**G01D 3/02** (2006.01)

CPC (source: CN EP US)  
**G01D 3/00** (2013.01 - CN); **G01D 3/022** (2013.01 - EP US); **G01D 3/036** (2013.01 - US); **G01D 5/16** (2013.01 - CN); **G01D 18/008** (2013.01 - US); **G01R 19/252** (2013.01 - US); **G01R 31/2829** (2013.01 - US); **G01R 31/317** (2013.01 - US); **H03M 1/1205** (2013.01 - US)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**EP 3647737 A1 20200506; EP 3647737 B1 20220803**; CN 111141314 A 20200512; US 11287455 B2 20220329; US 2020141984 A1 20200507

DOCDB simple family (application)  
**EP 18204290 A 20181105**; CN 201911065963 A 20191104; US 201916671357 A 20191101